



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

FEB 29 2000

400 Seventh Street, S.W.
Washington, D.C. 20590

DOT-E 11917
(FIRST REVISION)

EXPIRATION DATE: January 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Sexton Can Company, Inc.
Cambridge, Massachusetts
2. PURPOSE AND LIMITATIONS:
 - a. This exemption authorizes the manufacture, mark, sale and use of a non-DOT specification, non-refillable, foam-filled cylinder conforming with all regulations applicable to a DOT specification 39 cylinder, except as specified herein, for the transportation in commerce of the materials authorized by this exemption. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171- 180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.304(d)(3) and 175.3 in that the use of a non-DOT specification package is not authorized.
5. BASIS: This exemption is based on the application of Sexton Can Company dated December 17, 1999, submitted in accordance with § 107.109.

FEB 29 2000

Continuation of DOT-E 11917 (1st Rev.)

Page 2

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Petroleum gases, liquefied	2.1	UN1075	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging authorized is a non-DOT specification, non-refillable steel cylinder consisting of a seamless shell with the bottom attached by a mechanical seam. Construction must be in conformance with Sexton Can Company's drawing SKE-84-101-A on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). The finished cylinder will contain a block of reticulated polyurethane foam that approximately fills the inside void of the cylinder and absorbs the gas into its cell structure. The foam must be in accordance with Sexton Can Company drawing #RPF-100 on file with the OHMEA. Each cylinder must be in conformance with the General Requirements for Specification Cylinders (§ 178.35) and DOT Specification 39 (§ 178.65) except as follows:

§ 178.35(e) *Pressure relief devices.*

The pressure relief system consists of a localized area of the bottom designed to fail at a minimum pressure of 315 psig and a maximum pressure of 480 psig. One cylinder must be taken at the beginning of production of each lot and pressurized until the relief system functions. If the system fails to function between 315 and 480 psig the lot represented by the test must be rejected.

§ 178.35(g) *Inspector's report.*

Add. The report may be modified to accommodate the deviations from DOT Specification 39 that are authorized herein.

FEB 29 2000

Continuation of DOT-E 11917 (1st Rev.)

Page 3

§ 178.65(a) *Type, size, service pressure and test pressure.*

Each cylinder must be constructed of steel and have a seamless cylindrical body with bottom attached by means of a circumferential mechanical joint. The maximum service pressure is 240 psig.

- (1) Water capacity must not exceed 32.5 cubic inches.
- (2) Minimum test pressure must be 300 psig.
- (3) * * *

§ 178.65(c) *Manufacture.*

- (1) * * *
- (2) Requirements for mechanical seam: Mechanical joints must have strength equal to or greater than the minimum strength of the shell material in the finished cylinder.

§ 178.65(d) *Wall thickness.*

Applies except that wall thickness less than 0.0085 inch is not authorized.

§ 178.65(f) *Pressure tests.*

- (1) Applies except that each cylinder must be tested at an internal pressure of at least 300 psig.
 - (2) * * *
 - (i) * * *
 - (ii) A failure initiates in a mechanical joint.
- * * * * *

§ 178.65(i) *Markings.*

- (1) * * *
- (2) Applies except the cylinder must be marked "DOT-E 11917" instead of "DOT-39".

* * * * *

FEB 29 2000

Continuation of DOT-E 11917 (1st Rev.)

Page 4

b. OPERATIONAL CONTROLS:

- (1) Filling density must be in accordance with § 173.304(d).
- (2) The cylinder must be shipped in strong outside packagings in accordance with § 173.301(k).

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.

b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.

c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

d. Each packaging manufactured under the authority of this exemption must be marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.

e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel and cargo aircraft only.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper shall furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

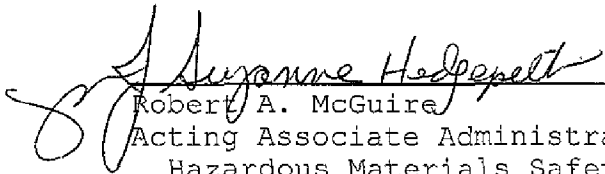
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued at Washington, D.C.


Robert A. McGuire
Acting Associate Administrator for
Hazardous Materials Safety

FEB 29 2000

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

FEB 29 2000

Continuation of DOT-E 11917 (1st Rev.)

Page 6

Copies of exemptions may be obtained from the AAHMS, U.S.
Department of Transportation, 400 7th Street, S.W., Washington,
DC 20590-0001, Attention: Records Center, 202-366-5046.

Dist: FAA, FHWA, USCG
PO: KFW